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TITLE: DYNAMO-ELECTRIC MACHINE
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ABSTRACT:

PROBLEM TO BE SOLVED: To cool a dynamo electric machine efficiently by a method wherein a plurality of coil slots are provided in the outer circumference of a rotor in the axial direction of the rotor with certain intervals and subslots which are opened in the bottom parts of the coil slots are provided and rotor windings in the coil slots are fixed by wedges and a plurality of ventilation paths which penetrate from the subslots to the wedges are provided in radial direction.

SOLUTION: A required number of slots 30 are provided in the circumferential direction of a rotor 1 and coil conductors 34 are housed in them. Subslots opened in the bottom parts of the slots 30 are provided. The coil conductors 34 are held by wedges 36 so as to prevent the coil conductors 34 from jumping out. Two rows of radial flow paths 33 are provided between the coil conductors 34 of each slot 30. Cooling air is sent through the subslot as shown by arrows and the coil conductors 34 are cooled. The number of the radial direction flow paths is not necessarily 2 but, if the number is too large, the air velocity is declined and the cooling efficiency is degraded. With this constitution, a large capacity air-cooled type

dynamo-electric machine can be manufactured at a low cost.

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